

chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13

chain bonds :

1-2 2-3 3-4 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13

exact bonds :

1-2 2-3 3-4 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13

Match level :

1:CLASS2:CLASS3:CLASS4:CLASS5:CLASS6:CLASS7:CLASS8:CLASS9:CLASS
10:CLASS11:CLASS12:CLASS13:CLASS

fragments assigned product role:

containing 5

fragments assigned reactant/reagent role:

containing 1

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:54:39 ON 23 FEB 2007

=> file casreact

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'CASREACT' ENTERED AT 09:55:02 ON 23 FEB 2007

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FILE CONTENT:1840 - 18 Feb 2007 VOL 146 ISS 8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

*
* CASREACT now has more than 12 million reactions *
*

Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>

Uploading C:\Program Files\Stnexp\Queries\10542890.str

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 09:55:21 FILE 'CASREACT'

SCREENING COMPLETE - 2497 REACTIONS TO VERIFY FROM 184 DOCUMENTS

100.0% DONE 2497 VERIFIED 3 HIT RXNS

3 DOCS

SEARCH TIME: 00.00.02

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED VERIFICATIONS: 46948 TO 52932

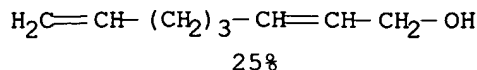
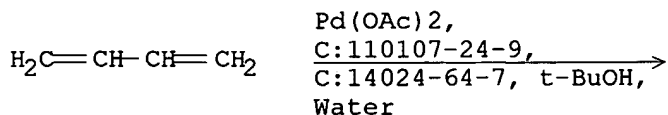
PROJECTED ANSWERS: 3 TO 163

L2 3 SEA SSS SAM L1 (3 REACTIONS)

=> d 12 1-3

L2 ANSWER 1 OF 3 CASREACT COPYRIGHT 2007 ACS on STN

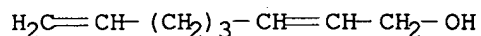
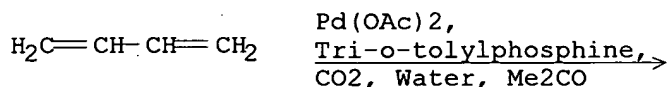
RX(1) OF 1



REF: Jpn. Kokai Tokkyo Koho, 09059193, 04 Mar 1997, Heisei

L2 ANSWER 2 OF 3 CASREACT COPYRIGHT 2007 ACS on STN

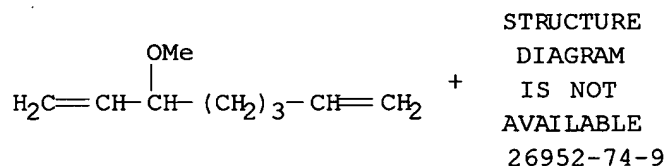
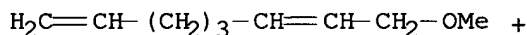
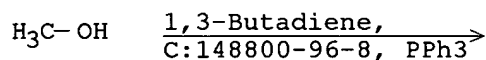
RX(1) OF 1



REF: Jpn. Kokai Tokkyo Koho, 06287156, 11 Oct 1994, Heisei

L2 ANSWER 3 OF 3 CASREACT COPYRIGHT 2007 ACS on STN

RX(2) OF 2



REF: Jpn. Kokai Tokkyo Koho, 04327594, 17 Nov 1992, Heisei
NOTE: 60.degree. under N2

=> s l1 ful

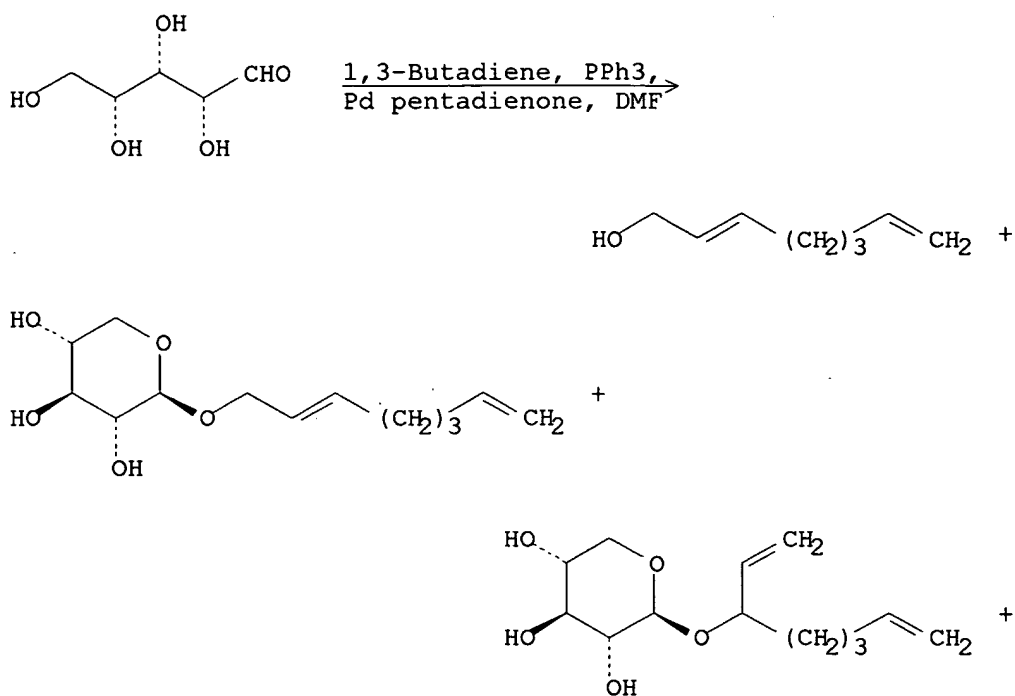
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100.0% DONE 54480 VERIFIED 180 HIT RXNS 68 DOCS
SEARCH TIME: 00.00.07

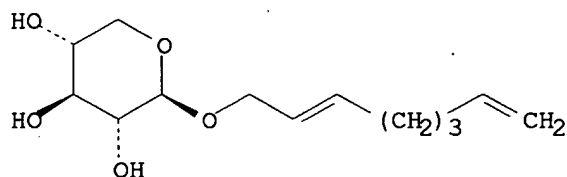
L3 68 SEA SSS FUL L1 (180 REACTIONS)

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RX(1) OF 11



RX(1) OF 11

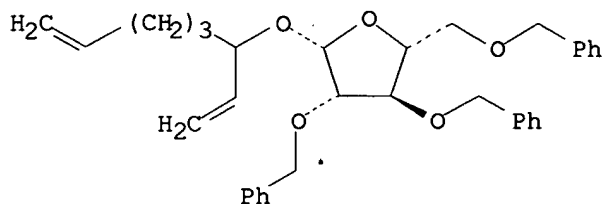
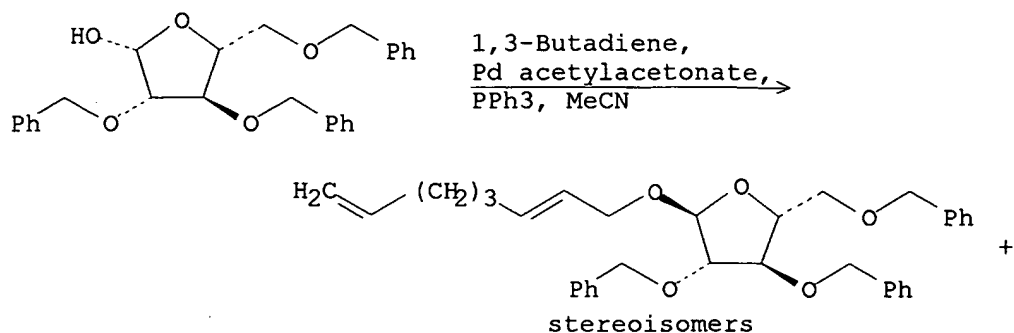


REF: Journal of Molecular Catalysis A: Chemical, 238(1-2), 199-206; 2005

NOTE: chemoselective, regioselective, stereoselective, 30:70
alpha:beta, 8:1 E:Z, optimization study, optimized on amount of
butadiene, optimized on reaction time, product depends on
reaction conditions

CON: 70 hours, 20 deg C

RX(1) OF 4



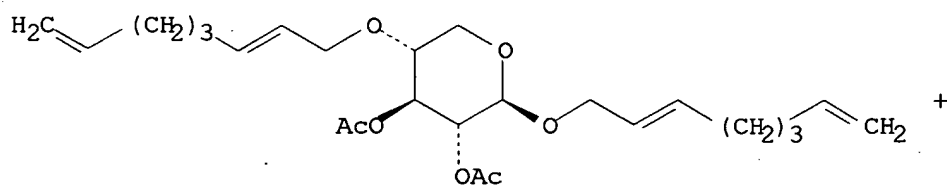
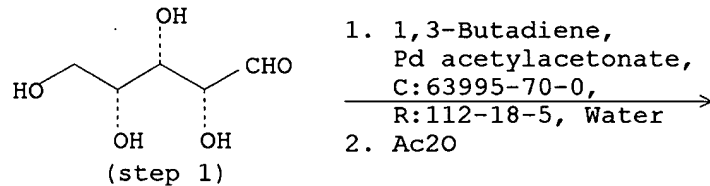
REF: Carbohydrate Research, 2006, 341(1), 153-159; 2005

NOTE: 99% overall yield, alternative reaction conditions gave lower yield, autoclave used, optimization study

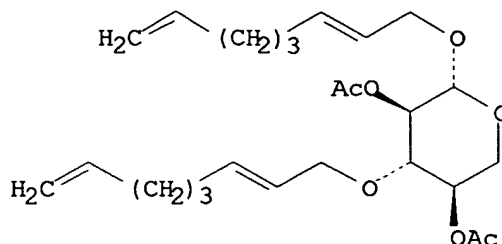
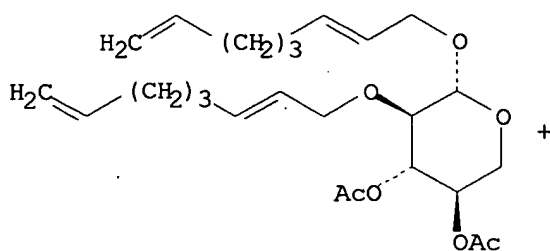
CON: 24 hours, 75 deg C

L3 ANSWER 3 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

RX(1) OF 1



RX(1) OF 1



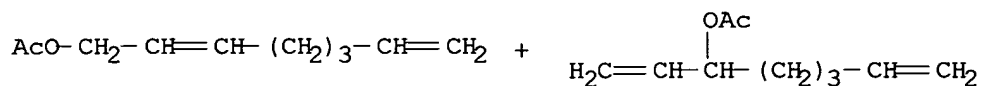
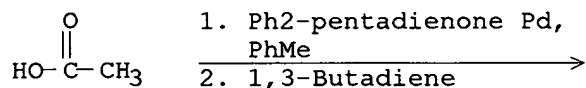
REF: Green Chemistry, 7(4), 219-223; 2005

NOTE: stereoselective, 83% conversion, Et3N and DIPEA gave lower conversion, optimization study, optimized on base, reactant assumed in 2nd stage

CON: 45 minutes, 80 deg C

L3 ANSWER 4 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

RX(1) OF 1



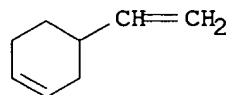
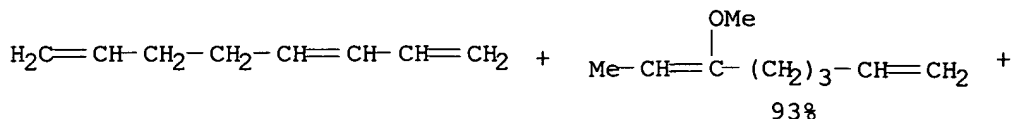
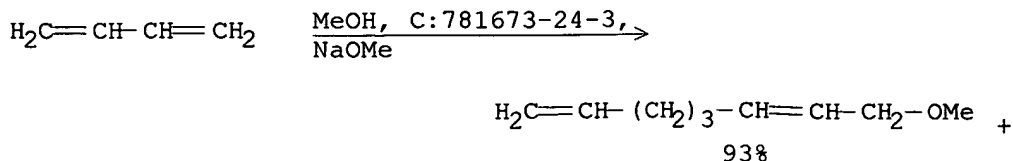
REF: U.S. Pat. Appl. Publ., 2005038305, 17 Feb 2005

NOTE: optimization study, regioselective

CON: STAGE(1) 0.17 hours, 25 deg C; 25 deg C -> -60 deg C
STAGE(2) 215 deg C; 8 hours, 25 deg C -> 60 deg C

L3 ANSWER 5 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

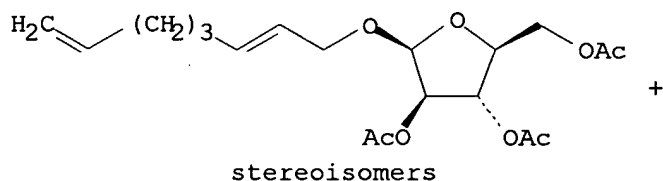
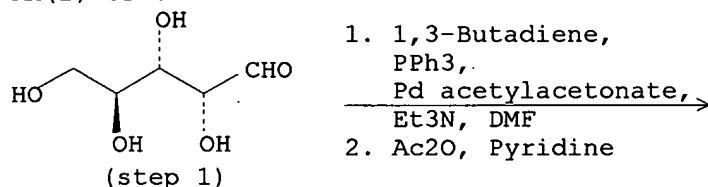
RX(6) OF 28



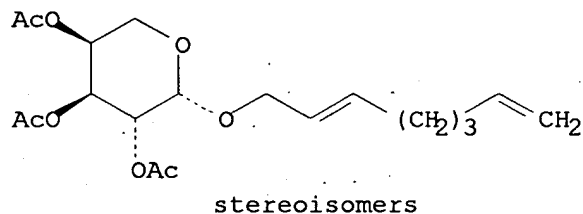
REF: Chemistry--A European Journal, 10(16), 3891-3900; 2004
NOTE: chemoselective, regioselective, alternative catalysts gave lower yields, stainless steel Parr autoclave used
CON: STAGE(1) -78 deg C; -78 deg C -> 70 deg C; 16 hours, 70 deg C

L3 ANSWER 6 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

RX(2) OF 8

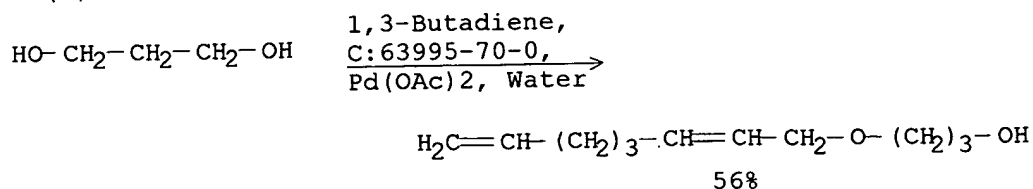


RX(2) OF 8



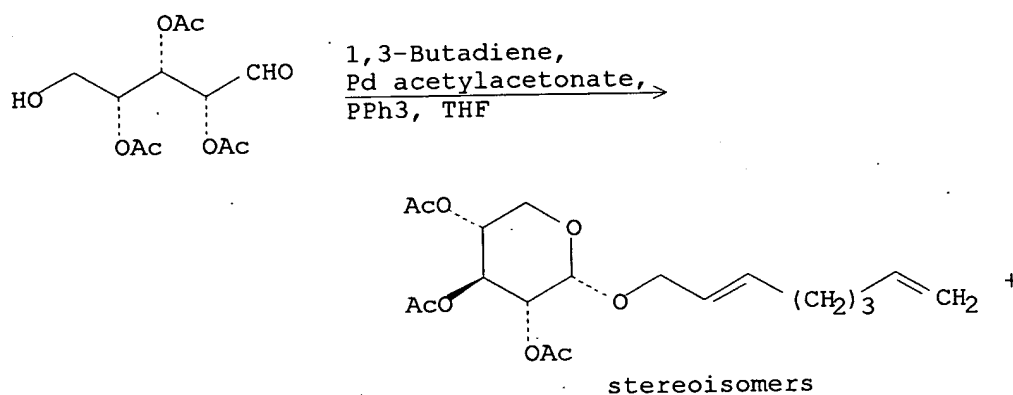
REF: European Journal of Organic Chemistry, (13), 2914-2922; 2004
NOTE: other products also detected, stereoselective, isomer mix; 86% overall yield; selectivity depends on time, additive, cat. and amt. of amine and phosphine
CON: STAGE(1) 45 minutes, 75 deg C; cooled
STAGE(2) 12 hours, room temperature

RX(1) OF 3

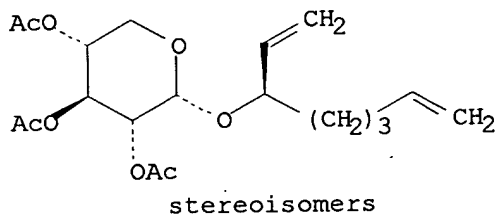


REF: Advanced Synthesis & Catalysis, 345(11), 1242-1246; 2003
 NOTE: autoclave used, other product also detected, yield depends on reaction conditions
 CON: 4 hours, 80 deg C, 10 bar -> 5 bar

RX(1) OF 5

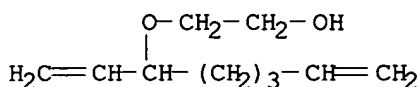
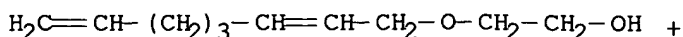
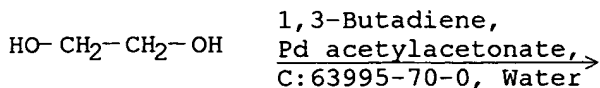


RX(1) OF 5



REF: European Journal of Organic Chemistry, (3), 511-520; 2004
 NOTE: regioselective, stereoselective, 49:51 alpha:beta, 97 % overall yield; autoclave used; optimization study; optimized on solvent used; other solvents (DMF, DCM and MeCN) gave lower yield and regioselectivity; yield proportions determined by GC; %
 CON: 4 hours, 70 deg C

RX(3) OF 7



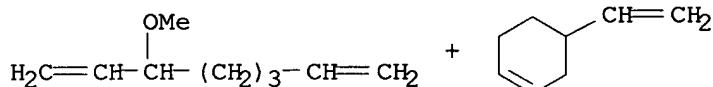
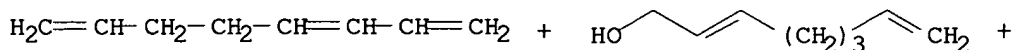
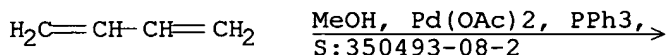
REF: Green Chemistry, 5(2), 198-204; 2003

NOTE: 75 % overall yield; green chem.-renewable feedstock; high pressure; other products also detected; selective to monotelomers; stainless steel autoclave used

CON: STAGE(1) room temperature; room temperature \rightarrow 80 deg C; 4 hours, 80 deg C, 10 bar

L3 ANSWER 10 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

RX(1) OF 15



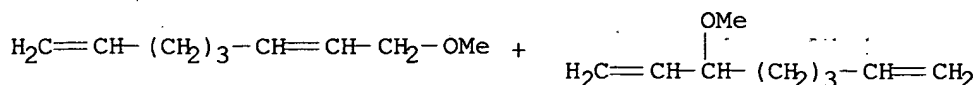
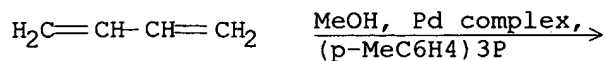
REF: Organometallics, 22(22), 4418-4425; 2003

NOTE: ionic liq., product distribution depends on solvent, ligand, other products also detected, 100% conversion

CON: STAGE(1) -10 deg C; 1 hour, 85 deg C

L3 ANSWER 11 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

RX(3) OF 6



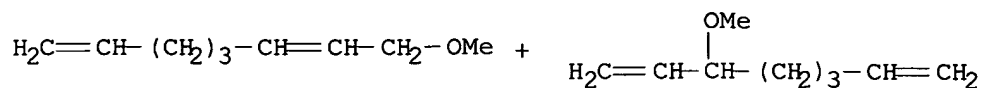
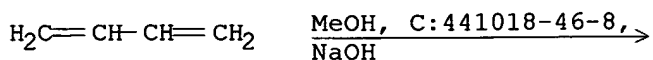
REF: European Journal of Organic Chemistry, (2), 274-283; 2003

NOTE: regioselective, other products also detected (butadiene dimers), optimization study of catalyst

CON: STAGE(1) room temperature; room temperature \rightarrow -20 deg C; -20 deg C; .75 hours, 60 deg C, 4 bar

L3 ANSWER 12 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

RX(1) OF 4

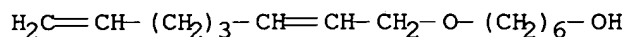
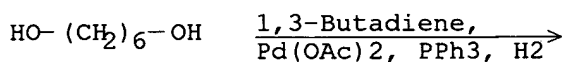


REF: Angewandte Chemie, International Edition, 41(6), 986-989; 2002

NOTE: 98% overall, chemoselective

L3 ANSWER 13 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

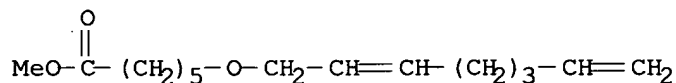
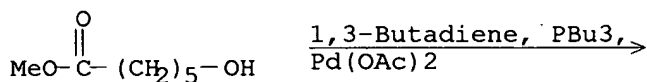
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REF: Jpn. Kokai Tokkyo Koho, 2002020343, 23 Jan 2002

L3 ANSWER 14 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

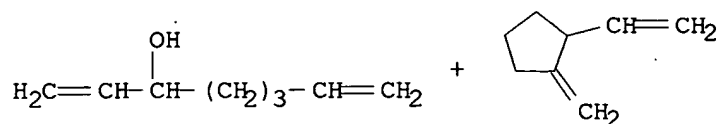
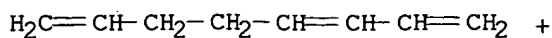
RX(1) OF 10



66%

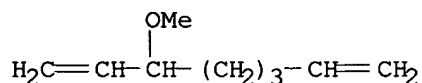
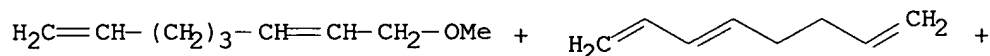
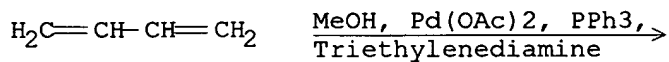
REF: Jpn. Kokai Tokkyo Koho, 2001240598, 04 Sep 2001

L3 ANSWER 15 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

$$\text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2 \xrightarrow[\text{CO}_2, \text{Me}_2\text{CO}]{\text{Pd}(\text{OAc})_2, \text{PPh}_3, \text{Water},}$$


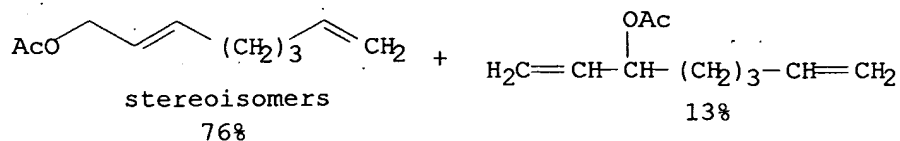
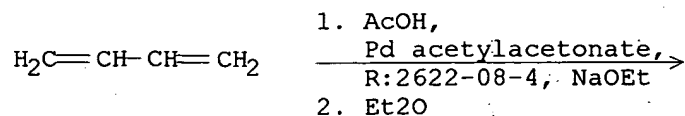
NOTE: products and the ratio related cat

RX (1) OF 1



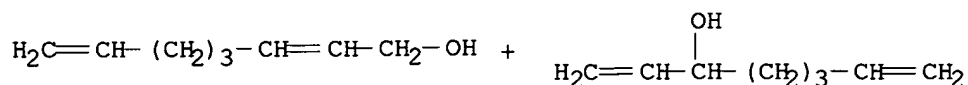
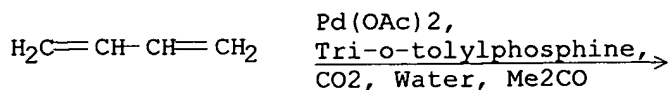
NOTE: 80% conversion

RX (5) OF 156



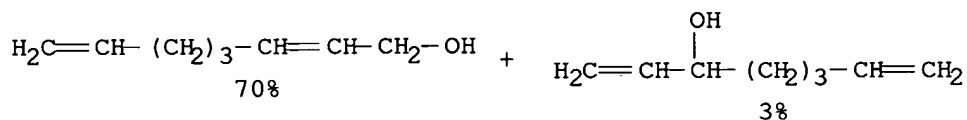
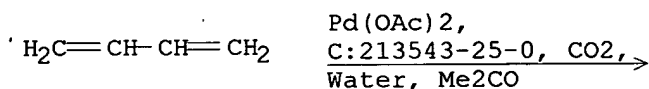
REF: European Journal of Organic Chemistry, (17), 2991-3000; 2000

RX(1) OF 1



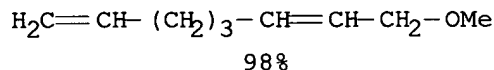
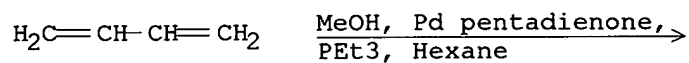
REF: Jpn. Kokai Tokkyo Koho, 11189556, 13 Jul 1999, Heisei
NOTE: 75.degree. for 3 h; 1,7-octadien-3-ol/2,7-octadiene-1-ol ratio of 20.3

RX(1) OF 1



REF: Jpn. Kokai Tokkyo Koho, 10237082, 08 Sep 1998, Heisei

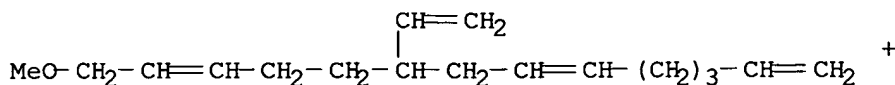
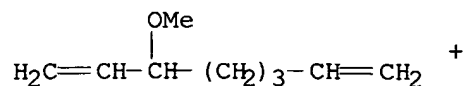
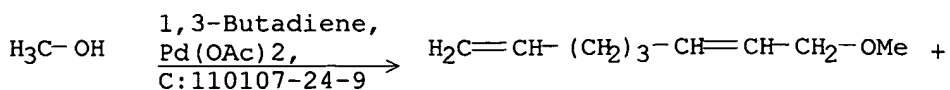
RX(1) OF 5



REF: Journal of Molecular Catalysis A: Chemical, 129(2-3), 179-189; 1998

NOTE: seeking to suppress trimer and dimer formation; excess alc. required, phosphine has little effect

RX(2) OF 2



MULTI

PAGE

IMAGE

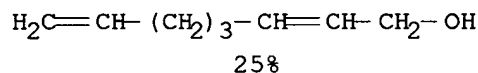
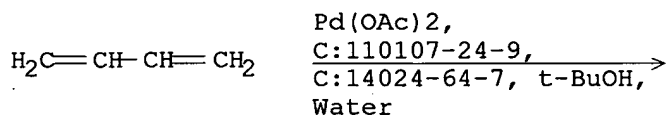
192522-71-7

REF: Jpn. Kokai Tokkyo Koho, 09176051, 08 Jul 1997, Heisei

NOTE: heating to 90.degree. over 20 min and at 90.degree. for 30 min

L3 ANSWER 22 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

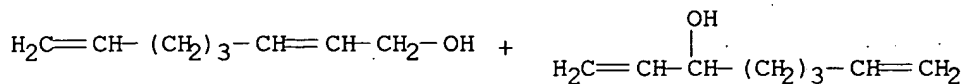
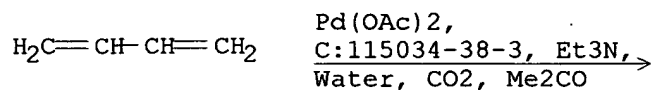
RX(1) OF 1



REF: Jpn. Kokai Tokkyo Koho, 09059193, 04 Mar 1997, Heisei

L3 ANSWER 23 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

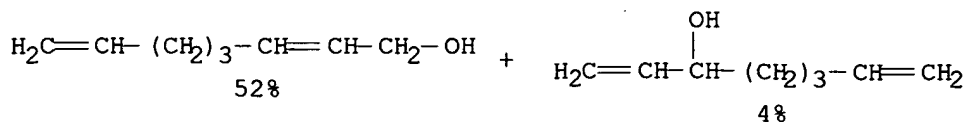
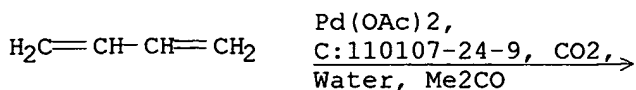
RX(1) OF 1



REF: Ger. Offen., 19547498, 27 Jun 1996

L3 ANSWER 24 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

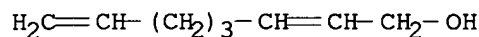
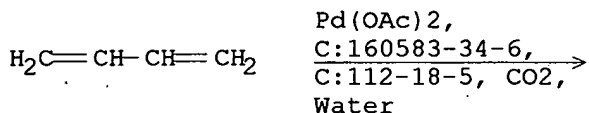
RX(1) OF 1



REF: Ger. Offen., 19523335, 04 Jan 1996

L3 ANSWER 25 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

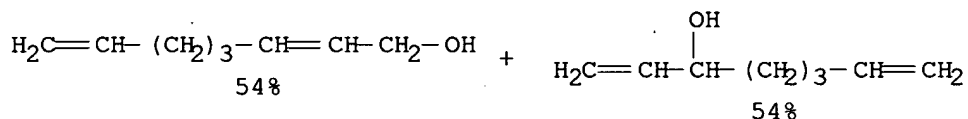
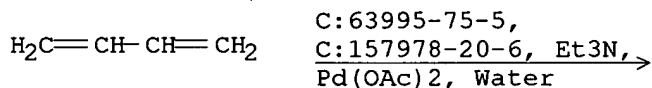
RX(1) OF 1



REF: PCT Int. Appl., 9530636, 16 Nov 1995

L3 ANSWER 26 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

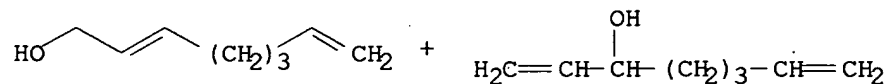
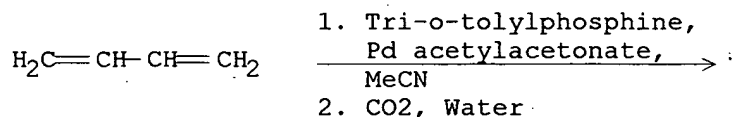
RX(1) OF 1



REF: PCT Int. Appl., 9526948, 12 Oct 1995

L3 ANSWER 27 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

RX(1) OF 3

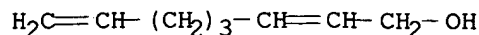
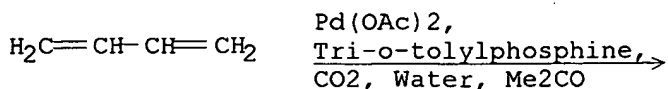


REF: Journal of the Chemical Society, Chemical Communications, (9), 931-2; 1995

NOTE: 27% OVERALL YIELD, NATURE OF CATALYST AND REACTION TEMP. DETERMINE PRODUCT DISTRIBUTION

L3 ANSWER 28 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

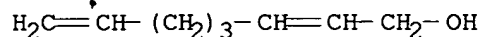
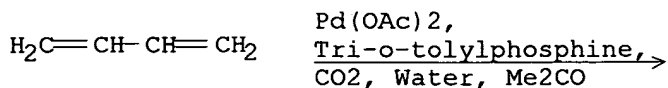
RX(1) OF 1



REF: Jpn. Kokai Tokkyo Koho, 06287156, 11 Oct 1994, Heisei

L3 ANSWER 29 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

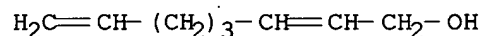
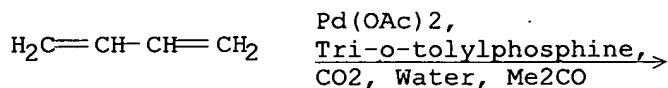
RX(1) OF 1



REF: Jpn. Kokai Tokkyo Koho, 06287155, 11 Oct 1994, Heisei

L3 ANSWER 30 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

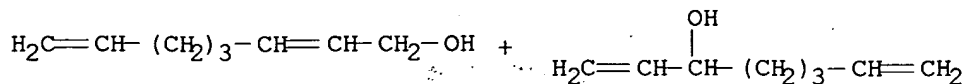
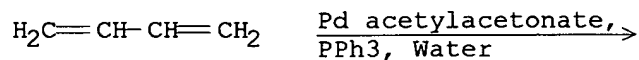
RX(1) OF 3



REF: Ger. Offen., 4410746, 06 Oct 1994

L3 ANSWER 31 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

RX(1) OF 1

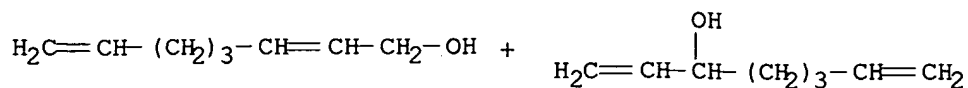
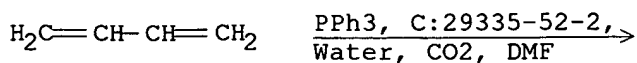


REF: PCT Int. Appl., 9400410, 06 Jan 1994

NOTE: CO₂ pressure 20 kg/cm²; 90.degree.

L3 ANSWER 32 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

RX(1) OF 1

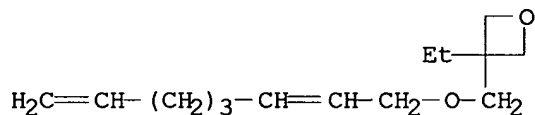
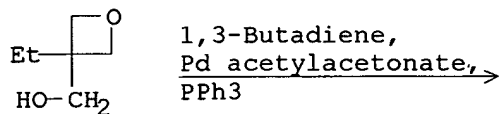


REF: Jpn. Kokai Tokkyo Koho, 05155795, 22 Jun 1993, Heisei

NOTE: 90.degree., 3 h; 78% butadiene conversion; 74% selectivity for 2, 4-octadienol.

L3 ANSWER 33 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

RX(1) OF 2

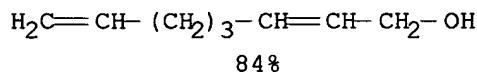
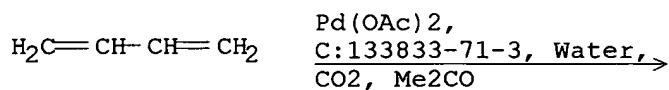


REF: Eur. Pat. Appl., 546422, 16 Jun 1993

NOTE: no solvent

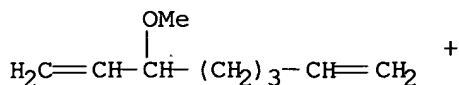
L3 ANSWER 34 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

RX(1) OF 1



REF: Brit. UK Pat. Appl., 2260136, 07 Apr 1993

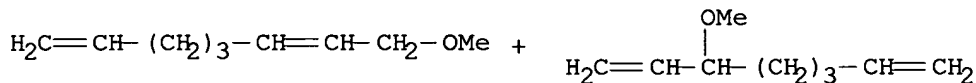
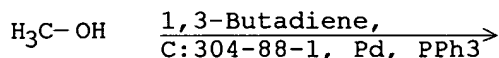
L3 ANSWER 35 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

$$\text{H}_3\text{C}-\text{OH} \xrightarrow[\text{C:148800-96-8, PPh}_3]{1,3\text{-Butadiene,}}$$


REF: Jpn. Kokai Tokkyo Koho, 04327594, 17 Nov 1992, Heisei
NOTE: 60.degree. under N2

L3 ANSWER 36 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

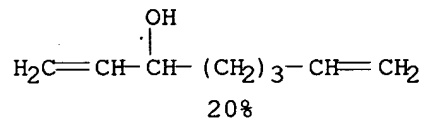
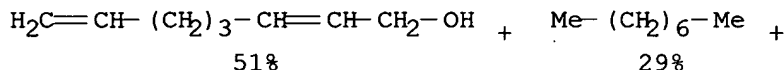
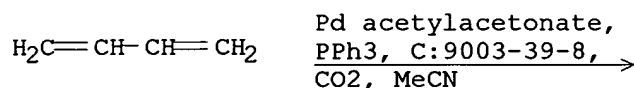
RX (1) OF 1



REF: Jpn. Kokai Tokkyo Koho, 04327552, 17 Nov 1992, Heisei

L3 ANSWER 37 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

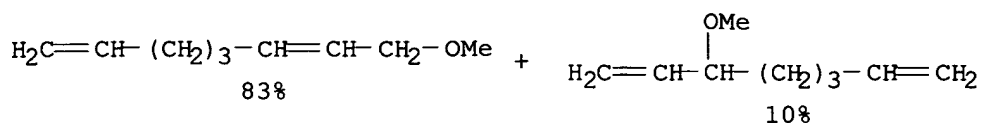
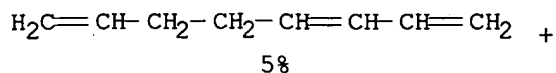
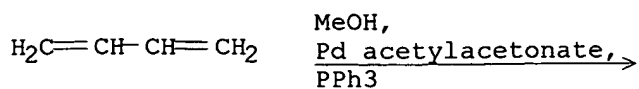
RX (1) OF 1



REF: U.S., 5169981, 08 Dec 1992

L3 ANSWER 38 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

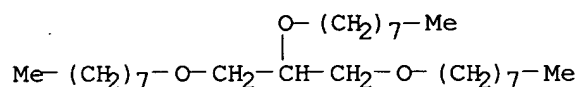
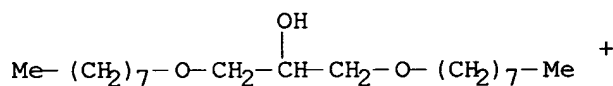
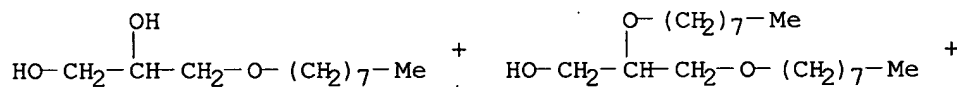
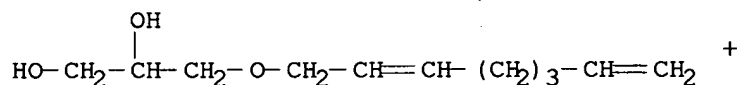
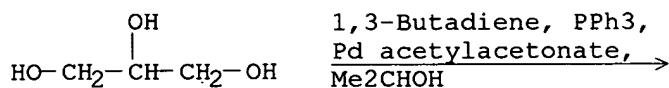
RX(1) OF 1



REF: Fenzi Cuihua, 6(2), 148-55; 1992

L3 ANSWER 39 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

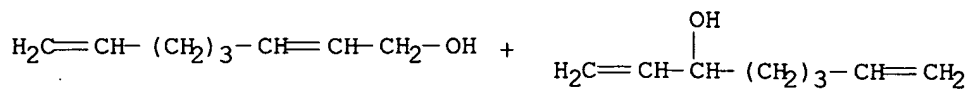
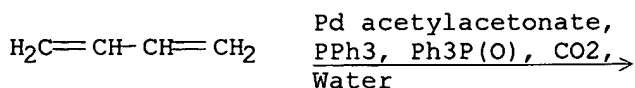
RX(1) OF 3



REF: Ger. Offen., 4021015, 09 Jan 1992

L3 ANSWER 40 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

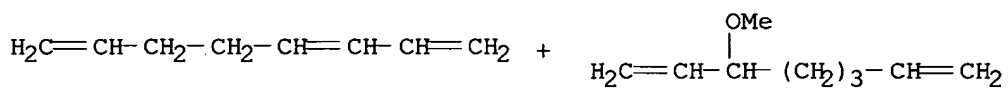
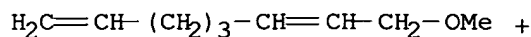
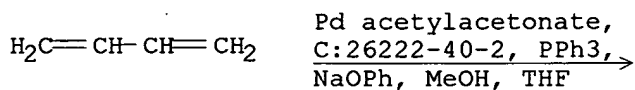
RX(1) OF 1



REF: Ger. Offen., 3925217, 31 Jan 1991
NOTE: 93% overall

L3 ANSWER 41 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

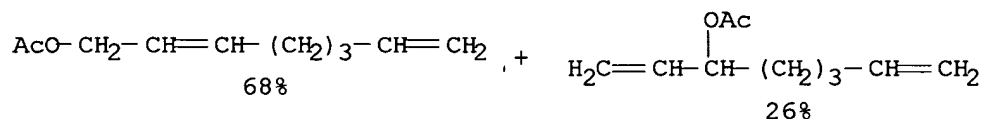
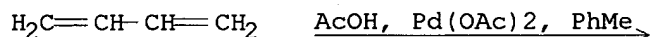
RX(10) OF 12



REF: Journal of Molecular Catalysis, 55(1-3), 340-52; 1989

L3 ANSWER 42 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

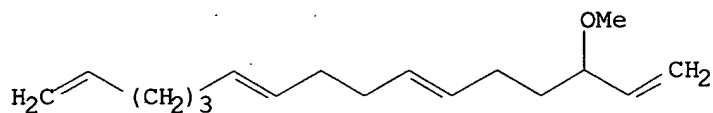
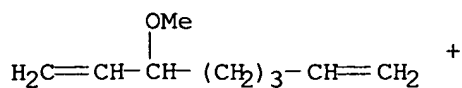
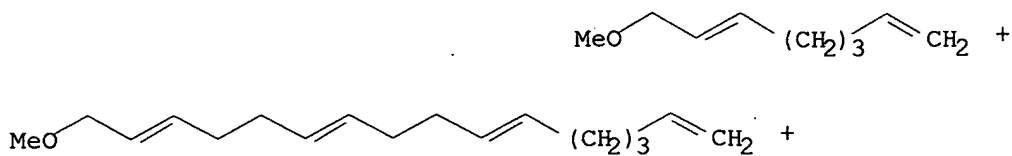
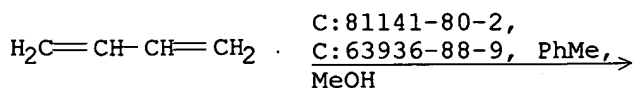
RX(14) OF 14



REF: Journal of Organic Chemistry, 54(11), 2726-30; 1989

L3 ANSWER 43 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

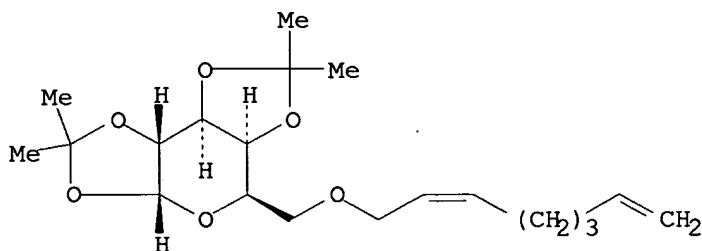
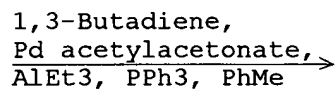
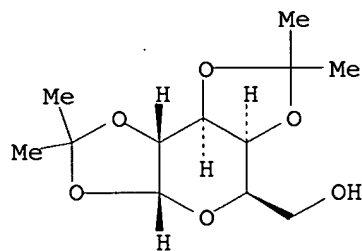
RX(1) OF 19



REF: Journal of Organic Chemistry, 54(10), 2459-62; 1989

L3 ANSWER 44 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

RX(1) OF 3

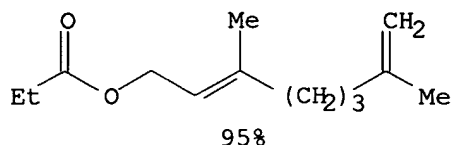
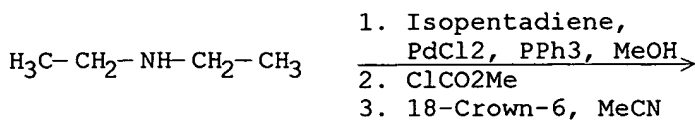


738

REF: Zhurnal Organicheskoi Khimii, 24(1), 119-21; 1988

L3 ANSWER 45 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

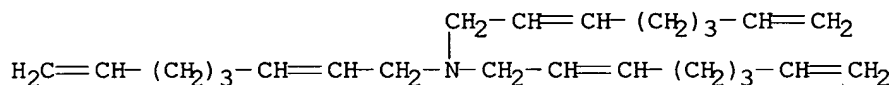
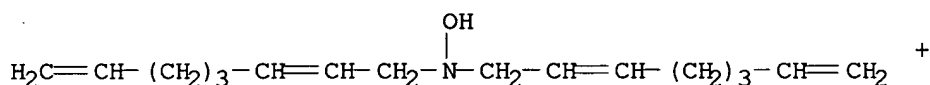
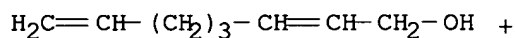
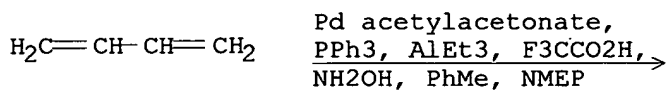
RX(6) OF 6 - 3 STEPS



REF: Zhurnal Organicheskoi Khimii, 23(11), 2297-9; 1987

L3 ANSWER 46 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

RX(1) OF 4

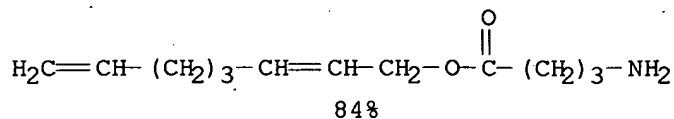
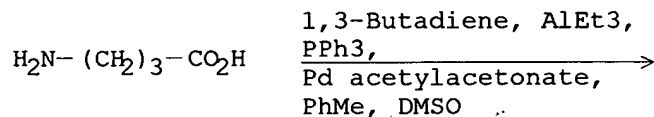


REF: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, (10), 2254-6; 1986

NOTE: overall yield 51%

L3 ANSWER 47 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

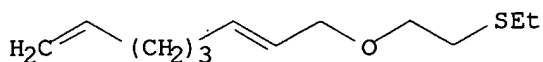
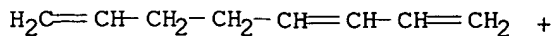
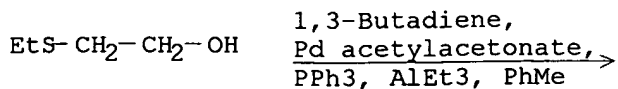
RX(15) OF 20



REF: Zhurnal Organicheskoi Khimii, 22(8), 1610-19; 1986

L3 ANSWER 48 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

RX(1) OF 20

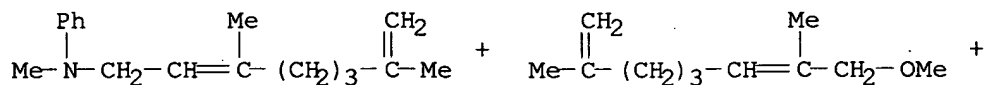
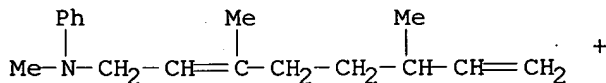
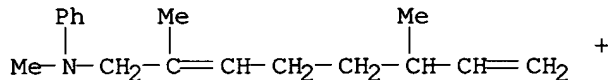
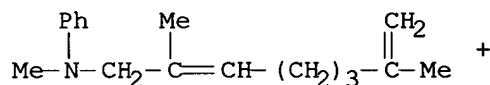
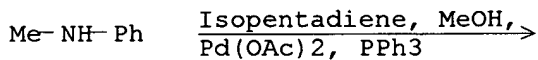


98%

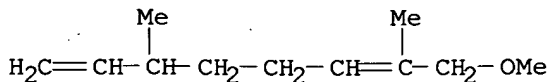
REF: Zhurnal Organicheskoi Khimii, 22(8), 1591-7; 1986

L3 ANSWER 49 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

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RX(1) OF 14

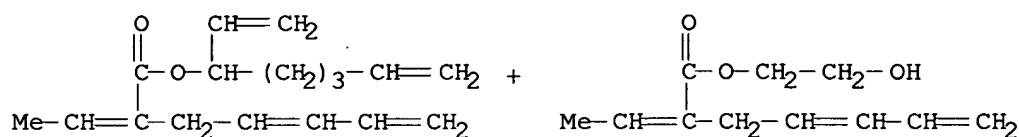
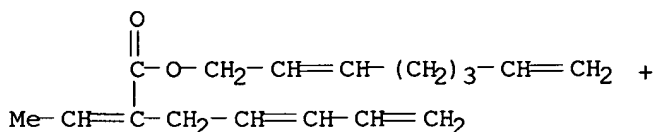
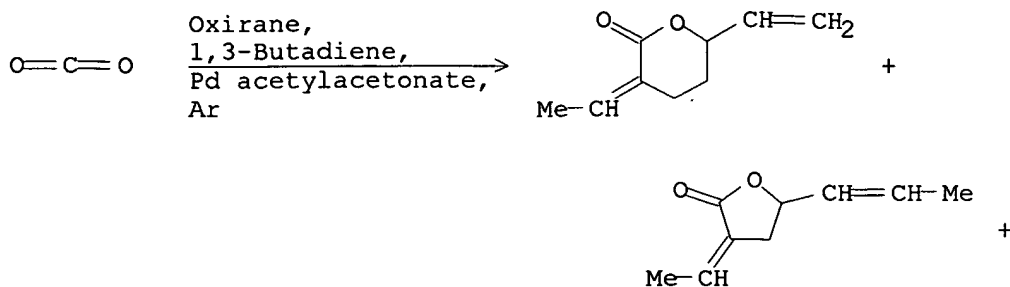


REF: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, (6), 1344-7; 1986

NOTE: or Pd(acac)₂

L3 ANSWER 50 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

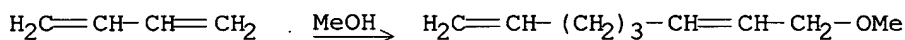
RX(1) OF 5



REF: Journal of Organometallic Chemistry, 309(1-2), 215-23; 1986

L3 ANSWER 51 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

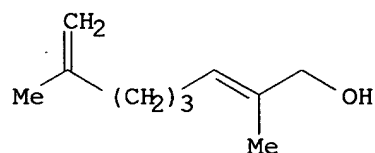
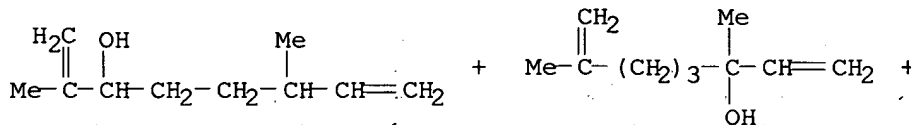
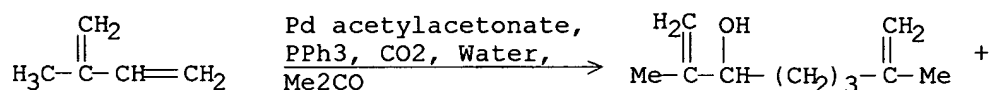
RX(1) OF 2



REF: U.S., 4642392, 10 Feb 1987

L3 ANSWER 52 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

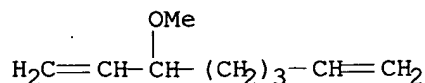
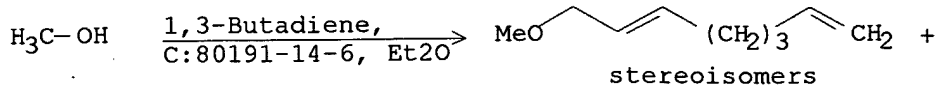
RX(1) OF 5



stereoisomers

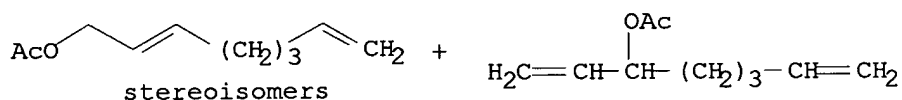
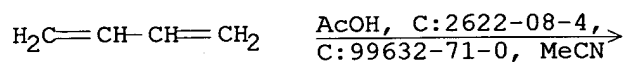
REF: Zeitschrift fuer Chemie, 25(6), 226-7; 1985

RX(14) OF 22



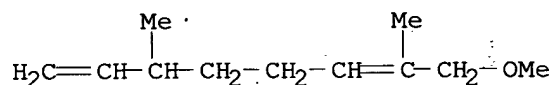
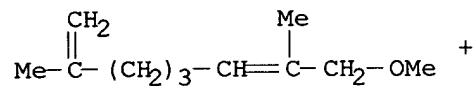
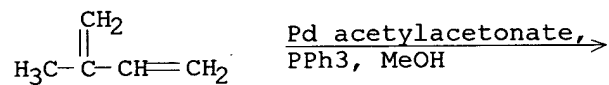
REF: Organometallics, 5(3), 473-81; 1986

RX(8) OF 21



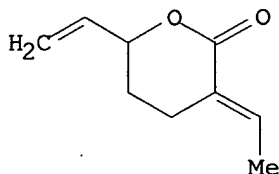
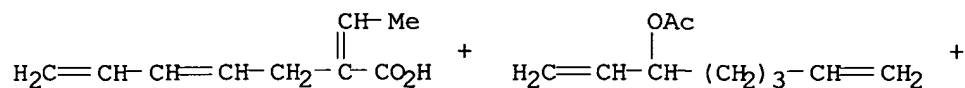
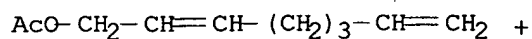
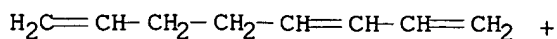
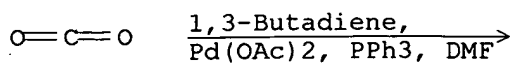
REF: Organometallics, 5(3), 514-18; 1986

RX(1) OF 2



REF: Journal fuer Praktische Chemie (Leipzig), 327(4), 643-8; 1985

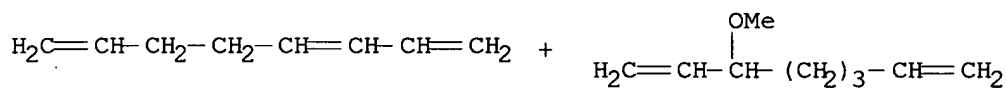
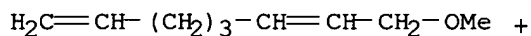
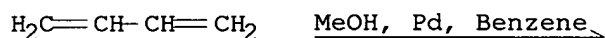
RX(2) OF 16



REF: Nippon Kagaku Kaishi, (3), 533-6; 1985

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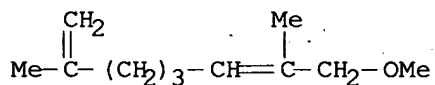
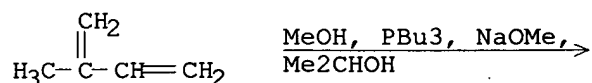
RX(7) OF 12



REF: Journal of Molecular Catalysis, 29(1), 99-104; 1985

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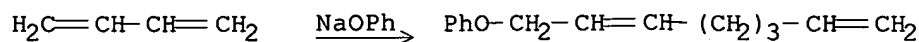
RX(3) OF 3



REF: Journal fuer Praktische Chemie (Leipzig), 326(5), 729-36; 1984

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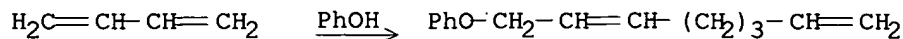
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REF: U.S.S.R., 892851, 15 Jul 1982

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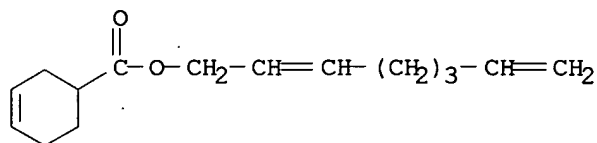
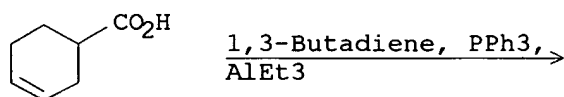
RX(1) OF 15



REF: Angewandte Chemie, 94(10), 796-7; 1982

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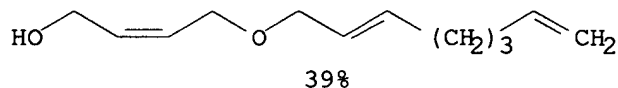
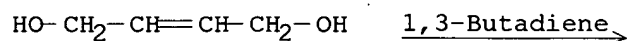
RX(1) OF 3



REF: Zhurnal Organicheskoi Khimii, 18(1), 46-52; 1982

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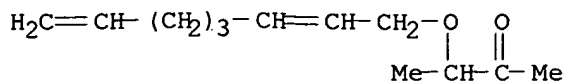
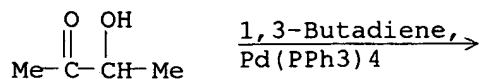
RX(11) OF 12



REF: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, (8), 1837-42; 1981

L3 ANSWER 63 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

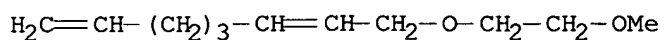
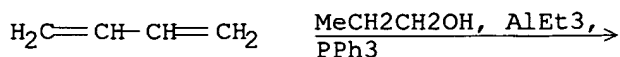
RX(5) OF 12



REF: Tetrahedron Letters, 21(39), 3787-90; 1980

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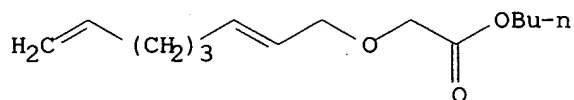
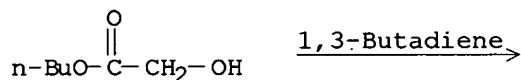
RX(1) OF 6



REF: Zhurnal Organicheskoi Khimii, 16(6), 1157-61; 1980

L3 ANSWER 65 OF 68 CASREACT COPYRIGHT 2007 ACS on STN

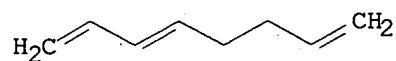
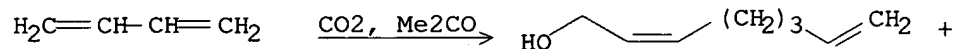
RX(2) OF 10



REF: Journal of Organometallic Chemistry, 137(3), 309-14; 1977

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RX(1) OF 1

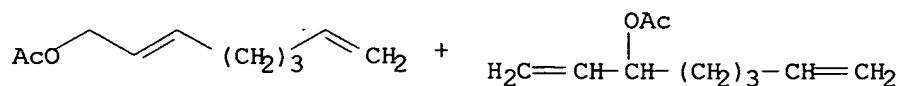
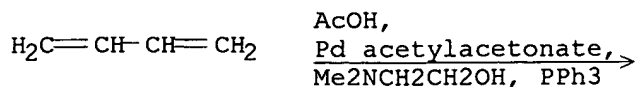


REF: Journal of the Chemical Society [Section] D: Chemical Communications, (7), 330; 1971

NOTE: Classification: C-Alkylation; Addition; Hydroxylation; # Conditions: CO₂ Pd complex acetone; 90 deg 2h; # Comments: 69% yield of 1-OH product, 13% yield of alkene; 10% yield of octadienyl esters

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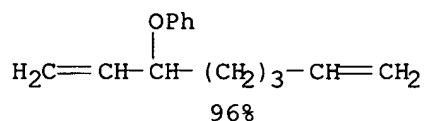
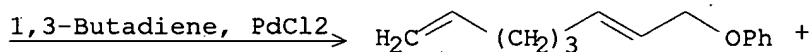
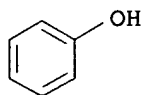


REF: Tetrahedron Letters, (43), 3817-20; 1970

NOTE: Classification: C-Alkylation; Regioselective; Addition; Acetoxylation; # Conditions: Me₂NCH₂CH₂OH; PPh₃ Pd(acac)₂; # Comments: 71% yield of 1-OAc product, 21% yield of 3-OAc product; 8% yield of alkene product

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REF: Journal of the American Chemical Society, 89(25), 6793-4; 1967

NOTE: Classification: Dimerisation; Addition; O-Alkylation; # Conditions: PdCl₂ PhONa; 100 deg; # Comments: 91% of trans product